

MEMORIAL UNIVERSITY OF NEWFOUNDLAND
Academic Council of the School of Graduate Studies
Minutes, WebEx Meeting of February 15, 2021

PRESENT: A. Surprenant (Chair), A. Warren, A. Kim, G. Galway, A. Dorward, J. Shea, V. Kavanagh, D. Howse, A. Hossain, V. Campbell, M. McKibbon, M. Cheema, C. Bottaro, C. Badenhorst, K. Bulmer, M. Burchell, T. Norvell, W. Rahman, F. Khan, D. Moralejo, A.M. Sullivan, H. Liu, E. Haven

APOLOGIES: A. Lang, E. Pittman, D. Hardy-Cox, R. Gosine, D. Farquharson, S. Cleyle

1. MINUTES

It was moved by W. Rahman, and seconded by V. Campbell, that the minutes of the meeting held January 15, 2021 be approved as circulated. The motion

CARRIED

2. BUSINESS ARISING

3. CORRESPONDENCE

4. DEAN'S REPORT/REPORT OF SENATE

- a. All items of business from Academic Council, that were forwarded to the Senate meeting of February 9, 2021, were approved, which also included two programs: Master of Science in Applied Geomatics, and the PhD in Boreal Ecosystems and Agricultural Sciences (BEAS).
- b. MUN is again in lock down. There are different protocols for accessing research labs/offices, and it is only for essential research at Level 5. If you already have access for level 4 and 3, when we reach that, it will not be necessary to re-apply.

5. REPORT OF THE GRADUATE STUDENTS' UNION

- a. A new Chief Returning Officer (CRO) has been hired and is working towards the GSU Elections 2021, which will be held virtually.
- b. The GSU Awards Ceremony. Deadline date for applications is February 26th, and the Award Ceremony date is March 12, 2021.
- c. The GSU is also organizing various virtual events, one of them being 'Graduate Student of the Week', which attracts many students.
- d. The 22nd Annual Aldrich Interdisciplinary Conference is scheduled for Marcy 21 – 22, 2021.

6. a) Academic Council Executive

i. Business

The Faculty of Business Administration is requesting approval of revisions to section 11 of the University calendar governing the MBA program, which permits the Graduate Record Examination General Test (GRE) to be used as an alternate to the Graduate Management Admissions Test (GMAT), and to section 12 governing the

MBA-SEE program which makes reference to the GRE (which was omitted as an oversight).

It was moved by A. Warren, and seconded by F. Khan, that the proposed new revisions be approved. The motion

CARRIED

Calendar Entry:

11.1 Qualifications for Admission:

1. Admission is limited and competitive. To be eligible for consideration for admission to the MBA program, an applicant shall:
 - a. normally hold at least a Bachelor's Degree, with a minimum 'B' standing, from an institution recognized by Senate;
 - b. normally have two years of full-time work experience, or equivalent, deemed acceptable to the Faculty of Business Administration; and
 - c. achieve a satisfactory total score on the Graduate Management Admission Test (GMAT) (normally a minimum of 550), as well as an appropriate balance of verbal and quantitative GMAT score components or a satisfactory total score on the Graduate Record Examinations (GRE) General Test (normally a minimum of 302), as well as an appropriate balance of verbal and quantitative GRE score components. Specific information regarding GMAT test centres, dates, registration procedure and deadlines can be obtained by contacting the Graduate Management Admission Council at ~~the GMAT exam website~~ www.mba.com. Specific information regarding GRE test centres, dates, registration procedure and deadlines can be obtained at www.ets.org/gre.
2. An applicant who did not complete a Bachelor's degree at a recognized university where English is the primary language of instruction must normally complete either the:
 - a. Test of English as a Foreign Language (TOEFL) and achieve a paper-based score of 580 (or higher), computer-based score of 237 (or higher), or Internet based score of 92-93 (or higher); or
 - b. International English Language Testing System (IELTS) and achieve a score of 7 (or higher).

Information regarding the TOEFL is available from the Educational Testing Service at www.ets.org. IELTS information is available at www.ielts.org.

3. In exceptional cases, an applicant who has not completed a Bachelor's degree, but who meets all other requirements, may be considered for admission. Preference will be given to those who present a high GMAT or GRE score, have a minimum of 10 years of full-time managerial and executive experience, and have completed several years of university studies. The Faculty may also take into account relevant professional credentials. An applicant who does not meet normal admission requirements may be required to complete, with a high level of achievement, certain undergraduate courses before being considered for admission.
4. Graduates of the Graduate Diploma in Business Administration applying to the M.B.A. program must meet all MBA admission requirements outlined above.
5. Notwithstanding the above, in exceptional cases, and only on the strong recommendation of the Faculty of Business Administration, consideration may be given to an applicant who does not qualify for admission consideration in accordance with the entrance requirements outlined above. It is noted that the GMAT or GRE testing requirement is never waived.

11.3.2. Procedure for Admission

- c. the official GMAT score report, ~~to be sent directly by the Graduate Management Admission Council. The code number for Memorial University of Newfoundland is LTT-6W-51;~~ or the official GRE score report

12.1 Qualifications for Admission

3. In exceptional cases, an applicant who has not completed a Bachelor's degree, but who meets all other requirements, may be considered for admission. Preference will be given to those who present a high GMAT (normally a minimum of 550) or GRE (normally a minimum of 302) score, have a minimum of 10 years of full-time managerial and executive experience, and have completed several years of university studies. The Faculty may also take into account relevant professional credentials. An applicant who does not meet normal admission requirements may be required to complete, with a high level of achievement, certain undergraduate courses before being considered for admission.
4. Notwithstanding the above, in exceptional cases, and only on the strong recommendation of the Faculty of Business Administration, consideration may be given to an applicant who does not qualify for admission consideration in accordance with the entrance requirements outlined above. It is noted that the GMAT or GRE requirement is never waived.

12.3.2 Procedure for Admission

- c. the official GMAT score report, ~~to be sent directly by the Graduate Management Admission Council. The code number for Memorial University of Newfoundland is LTT-6W-51;~~ or the official GRE score report

ii. Human Kinetics and Recreation

The School of Human Kinetics and Recreation is requesting approval of four new courses (6002, 6126, 6127 and 6335) and the insertion of these new courses under section 20.6 of the University Calendar.

It was moved by A. Warren, and seconded by A.M. Sullivan, that the proposed revisions be approved.

Discussion:

It was noted that one course was different in the level of specificity, compared to the other courses being proposed. The instructor of the course will be contacted regarding availability of more detailed reading list.

On the call for question, the motion (with additional information if available)

CARRIED

Calendar Entry:

20.6 Courses

- 6000 Quantitative Research Methods
- 6001 Qualitative Research Methods
- 6002 Action Research in Human Kinetics & Recreation
- 6003 Culture and Society in Human Kinetics & Recreation
- 6111 Canadian Delivery Systems in Physical Education, Recreation and Sport
- 6120 Curriculum Development in Physical Education
- 6121 Leadership in Human Kinetics & Recreation
- 6122 Comprehensive Community and School Health
- 6123 Coaching and Long-term Athlete Development
- 6124 Adapted Physical Activity
- 6126 Positive Youth Development
- 6127 Activity over the lifespan
- 6130 Computer Applications for Physical Activity Measurement and Intervention
- 6201 Foundations of Sport Psychology and Mental Training Techniques
- 6202 Intervention and Enhancement Techniques in Mental Training Consultation
- 6203 Sport Psychology Consulting
- 6310 Exercise Physiology I
- 6314 Graduate Seminar Series (repeatable, non-credit)
- 6320 Exercise Physiology II
- 6330 The Application and Implementation of Kinesiology Technologies
- 6335 Work, Organization & Health
- 6340 Occupational Biomechanics
- 6350 Human Error in Complex Work Systems
- 6360 Knowledge Translation: Applications to Ergonomics and Occupational Health and Safety
- 6370 Movement and Neural Science
- 6410 Sport and Society
- 6420 History of Physical Education, Recreation and Sport
- 6500 Introduction to Research in Physical Education
- 6600 Contemporary Issues and Trends in Human Kinetics & Recreation
- 6710-6719: Individual Reading and Research in Special Areas of Exercise and Work Physiology
- 6720-6729: Individual Reading and Research in Special Areas of Biomechanics and Ergonomics
- 6000 Quantitative Research Methods
- 6730-6739: Individual Reading and Research in Special Areas of Human Kinetics & Recreation

iii. Medicine 6199

The Faculty of Medicine is requesting approval of a title and description change for existing course Medicine 6199, and the revision to section 32.2.3 of the University Calendar, which more accurately describes the aim of the course, the learning environment and expectations for students' active engagement.

It was moved by A. Warren, and seconded by A Dorward, that the proposed revisions be approved. The motion

CARRIED

Calendar Entry:

32.2.3 Graduate Courses

- 6030-6050 Special Topics
- 6070 Seminars in Physiological Instrumentation
- 6075 Human Physiology, Performance and Safety in Extreme Environments (HSPE)
- 6090-6101 Special Topics
- 6102 Critical Theory in Health and Society
- 6103-6119 Special Topics
- 6127 Immunology I
- 6128 Immunology II
- 613A/B Advanced Immunological Methods (*same as the former 6130*)
- 6131-6139 Special Topics
- 6140 Basic Cardiovascular and Renal Physiology
- 6141 Cardiovascular/Renal Techniques
- 6142 Selected Topics in Cardiovascular and Renal Physiology
- 6143 Cardiovascular Anatomy
- 6144 Current Concepts in Cardiovascular and Renal Pathophysiology
- 6150 Principles of Scholarly Writing for Rural Doctors (may be delivered outside the regular semester timeframe)
- 6151 Principles of Research for Rural Doctors (may be delivered outside the regular semester timeframe)
- 6180 Structure, Function and Pharmacology of Muscle
- 6190 General Pharmacology
- 6192 Pharmacology of Receptors and Receptor Effector Coupling Processes
- 6193 Advanced Topics in Neuroscience
- 6194 Advanced Topics in Physiology
- 6195 Neurobiology of Nervous System Diseases
- 6196 Systems Neuroscience
- 6197 Cellular Neuroscience
- 6198 Neuroanatomy for Graduate Students (accelerated format)
- 6199 Health Sciences:- Writing and Grantsmanship
- 6200 Biostatistics I (*credit may be obtained for only one of MED 6200 or MED 6262*)
- 6220 Introduction to Community Health
- 6225 Health Inequities and the Social Determinants of Health
- 6250 Basic Clinical Epidemiology
- 6255 Clinical Research Design
- 6260 Applied Data Analysis for Clinical Epidemiology
- 6262 Biostatistics in Clinical Medicine (*credit may be obtained for only one of MED 6200 or MED 6262*)
- 6263 Conducting and Publishing Systematic Review and Meta-analysis
- 6265 Genetics and Clinical Epidemiology
- 6268 Patient Engagement in Health Research
- 6270 Epidemiology I
- 6274 Chronic Disease Epidemiology
- 6275 Epidemiology II
- 6276 Current Topics in Canada's Health Care System
- 6277 Issues in Northern, Rural and Remote Health in Canada
- 6278 Advanced Biostatistics for Health Research
- 6279 Quantitative Methods for Applied Health Research

- 6280 Community Health Research Methods
- 6281 Theory and Approaches to Medical Publication

iv. Medicine Revisions

The Faculty of Medicine is requesting approval of a revision to section 32 and 36 of the University Calendar, which removes reference to the Director of Clinical Epidemiology, as this position no longer exists.

It was moved by A. Warren, and seconded by V. Campbell, that the proposed revisions be approved. The motion

CARRIED

Calendar Entry:

32.1.3.4 Clinical Epidemiology

The program in Clinical Epidemiology is aimed at university graduates intending a career in health services, faculty members seeking advanced training in clinical epidemiology, medical doctors and other health care professionals interested in health research.

1. Qualifications for Admission

The admission requirements are as given under the **General Regulations** governing Master's degrees. In exceptional circumstances, a professional equivalent qualification will be considered for admission.

2. Program Requirements

- Students are required to take: MED 6262, MED 6250, MED 6255, or MED 6260, plus a minimum of one elective. Electives are normally chosen from MED 6095, MED 6263 and MED 6265 as recommended by the supervisory committee and approved by the ~~Director~~ or Coordinator. In addition students are required to take the Seminar Series (MED 6400, 6401, 6402 and 6403). MED 6250 and MED 6262 are normally completed in the Fall semester. MED 6255 and MED 6260 are normally completed in the Winter semester.
- Students are expected to give an oral presentation or course lecture in each year of their program.

36.27.2.1 Program Areas

1. Clinical Epidemiology

- The program in Clinical Epidemiology is aimed at university graduates intending a career in health services, faculty members seeking advanced training in clinical epidemiology, medical doctors, and other health care professionals interested in health research.
- Program Requirements: Students are required to successfully complete the following courses if they have not been previously completed: MED 6262, MED 6250, MED 6255, and MED 6260 plus a minimum of one elective. Electives are normally chosen from MED 6095, MED 6263 and MED 6265 or as recommended by the supervisory

committee and approved by the ~~Director or~~ Coordinator. Students are required to take the Ph.D. Seminar Series (MED 6410, 6411, 6412, 6413). MED 6250 and MED 6262 are normally completed in the Fall semester. MED 6255 and MED 6260 are normally completed In the Winter semester. The supervisory committee, with the approval of the ~~Director or~~ Coordinator, can recommend an alternate program of study. Students are expected to give an oral presentation or course lecture in each year of their program.

32.2.1 Qualifications for Admission

To be admitted into the respective graduate diploma program a student must be eligible to register as a graduate student, as described under **General Regulations, Graduate Diploma Programs**. In special circumstances, and upon the recommendation of the ~~Director of Clinical Epidemiology or~~ Associate Dean of Community Health and Humanities, for their respective program, a suitable combination of training and professional experience relevant to that program may be acceptable for admission.

v. Master of Marine Studies (MMS) Revisions

The Marine Institute is requesting revisions to section 21 of the University Calendar governing the degree of Master of Marine Studies and the Graduate Diploma in Marine Studies (Fisheries Resource Management), and the Master of Marine Studies (Marine Spatial Planning and Management).

The revisions include: housekeeping; removal of application deadline dates; removal of Category C electives, and the insertion of a statement clarifying the options for elective course selections; renaming of Categories A and B electives, with the addition/removal of courses to provide more flexibility for the grouping of electives.

It was moved by A. Warren, and seconded by F. Khan, that the proposed revisions be approved. The motion

CARRIED

Calendar Entry:

21 Regulations Governing the Degree of Master of Marine Studies and the Graduate Diploma in Marine Studies (Fisheries Resource Management)

- www.mun.ca/sgs/contacts/sgscontacts.php
- www.mi.mun.ca
- www.mun.ca/become/graduate/apply/app_deadlines.php

The degree of Master of Marine Studies (M.M.S.) is offered in Fisheries Resource Management (FRM) and in Marine Spatial Planning and Management (MSPM). There is also a [Graduate Diploma in Marine Studies \(Fisheries Resource](#)

Management).

Both the Fisheries Resource Management and the Marine Spatial Planning and Management program areas will be administered by Academic Directors appointed by the Associate Vice-President (Marine Institute), Academic and Student Affairs, together with Academic Advisory Committees.

Academic Advisory Committees for each program area will be appointed by the Dean of Graduate Studies on recommendation of the Associate Vice-President (Marine Institute), Academic and Student Affairs. Each of these committees will consist of the Academic Director as Chair, three members from the Marine Institute and two members from other academic units of the University. Normally, all appointments will be for a period of three (3) years.

For the Fisheries Resource Management programs, a Technical Advisory Committee consisting of a cross-section of members with professional expertise related to the fishery, will provide regular feedback on program content, instruction, and future direction of the Program.

For the Marine Spatial Planning and Management program, a Technical Advisory Committee, consisting of a cross-section of members with professional expertise related to the ocean/marine sector, will provide regular feedback on program content, instruction, and future direction of the Program.

Members of these Technical Advisory Committees will be appointed by the Dean of Graduate Studies on recommendation of the Associate Vice-President (Marine Institute), Academic and Student Affairs. The Academic Director will be an ex-officio member and Chair of the Technical Advisory Committee. Normally all appointments will be for a period of three (3) years.

21.1 Graduate Diploma in Marine Studies (Fisheries Resource Management)

The Graduate Diploma in Marine Studies (Fisheries Resource Management) provides an opportunity for fisheries professionals to enhance their perspective on fishery issues from a variety of disciplines.

21.1.1 Admission Requirements

To be considered for admission to the Graduate Diploma in Marine Studies (Fisheries Resource Management), a student must be eligible to register in the Master of Marine Studies program (see **Master of Marine Studies (Fisheries Resource Management), Admission Requirements** below).

21.1.2 Program of Study

The program is offered online and requires successful completion of 18 credit hours of course work:

1. 5 courses (15 credit hours) from **Core Courses**; and
2. 1 elective course (3 credit hours) from either **Category A** or **Category B** Electives.

21.1.3 Evaluation

Students for the Graduate Diploma in Marine Studies (Fisheries Resource Management) must obtain a grade of B or better in all program courses.

21.1.4 Courses

Courses required for the Graduate Diploma in Marine Studies (Fisheries Resource Management) must be selected from the **Courses** section outlined under the Master of Marine Studies (Fisheries Resource Management) program.

21.2 Master of Marine Studies (Fisheries Resource Management)

The Master of Marine Studies (Fisheries Resource Management) is a multi-disciplinary program of study that will provide the student with exposure to all dimensions of modern fisheries resource management in an international context. The program is aimed at professionals working in or intending to enter careers in fisheries management. The program is offered online and requires successful completion of either 24 credit hours of course work and a Major Report, or 30 credit hours of course work. Students who have successfully completed the requirements for the Graduate Diploma in Marine Studies (Fisheries Resource Management) may elect to continue their program of study in order to earn the Degree.

21.2.1 Admission Requirements

1. Admission to the program is on a competitive basis. To be considered for admission to the program an applicant must normally have an undergraduate degree with a minimum of a high second class standing from an institution recognized by the Senate.
2. In addition, applicants will normally have a demonstrated commitment to fisheries through employment or experience in a sector of the fishery, in a regulatory agency or government department connected to fisheries, in a non-governmental agency, or through self-employment or consulting activities related to fisheries.
3. In exceptional cases, applicants who have not completed an undergraduate degree may be considered for admission. Preference will be given to those who have at least 10 years of relevant professional experience, and have successfully completed several years of post-secondary studies. Applicants who do not meet normal admission requirements shall be required to complete, with a high level of achievement, certain undergraduate courses before being considered for admission.
4. Applicants who did not complete a baccalaureate or post-graduate degree at a recognized university where English is the primary language of instruction must normally complete either the:

- a. Test of English as a Foreign Language (TOEFL) and achieve a paper-based score of 580 (or higher), computer-based score of 237 (or higher), or Internet based score of 92-93 (or higher); or
- b. International English Language Testing System (IELTS) and achieve a score of 7 (or higher).

Information regarding the TOEFL is available from the Educational Testing Service at www.ets.org. IELTS information is available at www.ielts.org. It is noted that other equivalent tests acceptable to the School of Graduate Studies will also be considered.

~~5. The deadlines for submission of applications for students wishing to enter the program are as follows:~~

- ~~○ Fall (September) semester: June 15~~
- ~~○ Winter (January) semester: October 15~~
- ~~○ Spring (May) semester: February 15~~

~~Applications received after listed deadlines will be considered as time and resources permit.~~

21.2.2 Program of Study

1. Students for the Master of Marine Studies (Fisheries Resource Management) shall be required to complete a minimum of either:
 - a. 24 credit hours of course work plus a Major Report on the **Course Work Plus a Major Report Route** completed in accordance with **General Regulation, Theses and Reports** of the School of Graduate Studies. Course work must include the following course selections from the **Courses** section below:
 - 5 core courses (15 credit hours)
 - 1 elective course (3 credit hours) from **Category A** Electives
 - 1 elective course (3 credit hours) from **Category B** Electives
 - 1 elective course (3 credit hours) from either **Category A** or **Category B**
 - b. 30 credit hours on the **Comprehensive Course Route** which must include the following course selections from the **Courses** section below:
 - 5 core courses (15 credit hours)
 - 2 elective courses (6 credit hours) from **Category A** Electives
 - 1 elective course (3 credit hours) from **Category B** Electives
 - 2 elective courses (6 credit hours) from either **Category A** or **Category B**
2. Dependent upon the applicant's academic background, other courses may be required by the Academic Advisory Committee.
3. Transfer of credit for graduate courses completed in other programs at the University or at other institutions recognized by Senate will be considered in accordance with School of Graduate Studies **General Regulations, Transfer of Course Credits**.

21.2.2.1 Course Work Plus a Major Report Route

24 credit hours of course work plus a Major Report completed in accordance with **General Regulations, Theses and Reports** of the School of Graduate Studies. Course work must include the following course selections from the **Courses** section

below:

- 5 core courses (15 credit hours)
- 1 elective course (3 credit hours) from Category A Electives
- 1 elective course (3 credit hours) from Category B Electives
- 1 elective course (3 credit hours) from either Category A or Category B

21.2.2.2 Comprehensive Course Route

30 credit hours on the Comprehensive Course Route which must include the following course selections from the Courses section below:

- 5 core courses (15 credit hours)
- 2 elective courses (6 credit hours) from Category A Electives
- 1 elective course (3 credit hours) from Category B Electives
- 2 elective courses (6 credit hours) from either Category A or Category B

21.2.3 Evaluation

1. Students for the Master's Degree must obtain a grade of B or better in all program courses.
2. Students who have received a grade less than a B in a program course will be permitted to remain in the program, provided the course is retaken and passed with a grade of B or better. Alternatively the student may, on the recommendation of the Academic Advisory Committee, substitute another graduate course. Only one such repeat or substitution will be permitted in the program.
3. The Major Report will normally be undertaken towards the end of the program. The topic of the report and a faculty Supervisor will be chosen by the student in consultation with the Academic Advisory Committee. The report provides an opportunity to synthesize an original perspective on a selected fisheries issue through the examination of appropriate literature and other sources of information. Normally the report will be multi-disciplinary in nature and will result in a document equivalent to a publishable periodical journal article or a consultant's report on a particular issue. It will be assessed in accordance with General Regulations, Theses and Reports of the School of Graduate Studies.

21.2.4 Courses

21.2.4.1 Core Courses

MSTM 6001 Fisheries Ecology (*credit may be obtained for only one of MSTM 6001 and the former FRM 6001*)

MSTM 6002 Fisheries Resource Assessment Strategies (*credit may be obtained for only one of MSTM 6002 and the former FRM 6002*)

MSTM 6003 Fisheries Economics (*credit may be obtained for only one of MSTM 6003 and the former FRM 6003*)

MSTM 6004 Fisheries Policy and Planning (*credit may be obtained for only one of MSTM 6004, the former FRM 6004, and the former FRM 6005*)

MSTM 6005 Overview of World Fisheries (*credit may be obtained for only one of*

MSTM 6005 and the former FRM 6009)

21.2.4.2 Category A Electives

MSTM 6006 Business Management for Fisheries (*credit may be obtained for only one of MSTM 6006 and the former FRM 6006*)

MSTM 6007 Fisheries Technology

MSTM 6008 Social and Philosophical Issues of Fisheries Management

MSTM 6009 Current Issues for Sustainable Fisheries

MSTM 6010 Legal Aspects of Fisheries Resource Management

21.2.4.3 Category B Electives

~~MSTM~~ MARI 6044 Marine Environment Law and Pollution Control (*credit restricted with the former MSTM 6044*)

MSTM 6056 Management for International Development

MSTM 6071 Management of Aquaculture Technology

TECH 6022 Communication and Conflict Resolution in a Technical Environment (*credit restricted with the former MSTM 6022*)

TECH 6023 Strategic Planning, Policy, Participation and Management in Technical Operations (*credit restricted with the former MSTM 6023*)

TECH 6033 Quality Systems (*credit restricted with the former MSTM 6033*)

TECH 6034 Project Management in the Offshore, Health, Fisheries and Engineering Technology Environments (*credit restricted with the former MSTM 6034*)

TECH 6039 Sustainability and Environmental Responsibility (*credit restricted with the former MSTM 6039*)

21.3 Master of Marine Studies (Marine Spatial Planning and Management)

The Master of Marine Studies (Marine Spatial Planning and Management) is a multi-disciplinary academic program that provides students with both conceptual/theoretical background and practical applied skills in integrated coastal and ocean management (ICOM) and marine spatial planning (MSP). The program provides a broad level understanding of planning processes and the governance, policy/legislative, ecological, social, cultural and economic elements of coastal and ocean areas complemented by practical and applied skills for stakeholder engagement, project management and utilization of geospatial technology to support planning and management efforts.

Successful completion of the program includes 30 credit hours of course work and an Internship or a Research Project.

The program commences in the Fall semester of each year.

21.3.1 Admission Requirements

Admission to the program is on a limited and competitive basis.

1. To be considered for admission to the program an applicant will normally possess a relevant second class or better undergraduate degree from a university of recognized standing.
- ~~2. Students intending to undertake electives in Decision Support / Geospatial Analysis (Category C) are required to have a background in mathematics, statistics and geographic information systems.~~
3. In exceptional cases, applicants who have not completed an undergraduate degree may be considered for admission. Preference will be given to those who have at least 10 years of relevant professional experience, and have successfully completed several years of post-secondary studies. Applicants who do not meet normal admission requirements shall be required to complete, with a high level of achievement, certain undergraduate courses before being considered for admission.
4. Applicants who did not complete a baccalaureate or post-graduate degree at a recognized university where English is the primary language of instruction must normally complete either the:
 - a. Test of English as a Foreign Language (TOEFL) and achieve a paper-based score of 580 (or higher), computer-based score of 237 (or higher), or Internet based score of 92-93 (or higher); or
 - b. International English Language Testing System (IELTS) and achieve a score of 7 (or higher).

Information regarding the TOEFL is available from the Educational Testing Service at www.ets.org. IELTS information is available at www.ielts.org. It is noted that other equivalent tests acceptable to the School of Graduate Studies will also be considered.

~~The deadline for submission of applications is March 15.~~

21.3.2 Program of Study

Students in the Master of Marine Studies (Marine Spatial Planning and Management) are required to complete 30 credit hours of course work and an Internship or Research Project. Course work includes 7 core courses: 6 courses (18 credit hours) completed online, 1 intensive hands-on course (3 credit hours) offered in a face-to-face environment, as well as 3 elective courses (9 credit hours) offered either online or on campus. Students will choose one of two options for elective course selection: two Category A Electives plus one Category B Elective; or two Category B Electives plus one Category A Elective.

21.3.2.1 Core Courses

All students must complete the following compulsory core courses:

MSTM 6011 Introduction to Integrated Coastal and Ocean Management / Marine Spatial Planning

MSTM 6012 Fundamentals of Geospatial Analysis

MSTM 6013 Resource/Natural Environment and Ocean Use Characterization

MSTM 6014 Geospatial Analysis for Marine Spatial Planning (prerequisites: MSTM 6011, 6012, and 6013) (may be offered in accelerated format)

MSTM ~~MARI~~ 6027 Coastal and Ocean Environmental Policies (*credit restricted with the former MSTM 6027*)

TECH 6022 Communication and Conflict Resolution in a Technical Environment
(*credit restricted with the former MSTM 6022*)

TECH 6034 Project Management in the Offshore, Health, Fisheries and Engineering
Technology Environments (*credit restricted with the former MSTM 6034*)

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21.3.2.2 Electives

Students will choose one of ~~three~~ two options for elective course selection:

two Category A Electives plus one Category B Elective; or
two Category B Electives plus one Category A Elective ~~or~~
~~two Category C Electives plus one Category A or B Elective~~

Category A Electives: ~~Natural Environment~~

ENVE/ENVS 6001 Earth and Ocean Systems

MSTM 6001 Fisheries Ecology (*credit restricted with the former FRM 6001*)

MSTM 6015 Marine Protected Areas

MSTM 6016 Coastal Geomorphology / Oceanography

[OCSC 7100 Biological Oceanography](#)

Category B Electives: ~~Human Environment~~

MSTM 6008 Social and Philosophical Issues in Sustainable Fisheries

MSTM 6017 Social and Cultural Aspects of Coastal Communities

MSTM 6018 Coastal and Ocean Economies

[MSTM 6003 Fisheries Economics](#) (*credit restricted with the former FRM 6003*)

[MSTM 6005 Overview of World Fisheries](#) (*credit restricted with the former FRM 6009*)

[OTEC 6014 Introduction to Marine Renewable Energy](#)

Category C Electives: ~~Decision Support / Geospatial Analysis~~

GEOG 6120 Geospatial Modelling and Analysis

GEOG 6821 Advanced Computer Modelling/Habitat Mapping

21.3.2.3 Internship (MSTM 6019) or Research Project

All students must complete an Internship or Research Project. Normally students would be permitted to register for the Internship or Research Project only after all other course requirements have been met, or during the student's last semester of studies. Evaluation of the Research Project shall be carried out in accordance with [General Regulations, Theses and Reports](#) in the School of Graduate Studies.

1. Internship Requirements

- Internships are normally proposed by the student and approved by the Academic Director in consultation with the Placement Officer. Internship placements may be local, national or international. Students seeking

international internships must consult with the Academic Director early in the first year of their program.

Internships are for full-time employment hours for the duration of the semester (12 weeks).

- Students must attend a scheduled pre-internship orientation workshop. See **Pre-Internship Workshop** below.
- Each internship placement is supervised and evaluated by the on-site Supervisor assigned by the employer and the Academic Director. The internship shall consist of two components:
 - On-Site Student Performance as evaluated by the on-site Supervisor assigned by the employer, in consultation with the Academic Director and Placement Officer.
 - An Internship Report graded by the Academic Director in consultation with the on-site Supervisor assigned by the employer.
- Evaluation of the Internship shall result in one of the following final grades: Pass or Fail.
- A student must obtain a Pass in both the On-Site Student Performance and the Internship Report to obtain a final grade of Pass. If a student fails to achieve the internship standards specified above, the student may be required to repeat the internship. An internship may only be repeated once.
- Students who voluntarily withdraw from the internship without prior approval from the Academic Director, or who conduct themselves in such a manner as to cause the host organization and the Placement Officer to terminate the placement, will normally be awarded a grade of Fail in the internship.
- Students are not permitted to withdraw from the internship without prior approval of the Academic Director, in consultation with the Placement Officer. The Placement Officer will make a recommendation to the Academic Director who will make the final decision. Permission to withdraw from the internship does not constitute a waiver of degree requirements, and students who have obtained such permission must complete an approved internship or research project in lieu of the internship dropped.

2. **Research Project Requirements**

- Research projects are normally proposed by the student and approved by the Academic Director.
- Students must attend a scheduled pre-research project orientation workshop. See **Pre-Research Project Workshop** below.
- Evaluation of the Research Project shall be carried out in accordance with **General Regulations**, **Theses and Reports** in the School of Graduate Studies.
- Students are not permitted to withdraw from the research project without prior approval of the Academic Director. Permission to withdraw from the research project does not constitute a waiver of degree requirements, and students who have obtained such permission must complete an approved research project or internship in lieu of the research project dropped.

3. Workshops

Students are required to complete one of the following workshops:

- **Pre-Internship Workshop**

This online workshop reviews the Internship requirements. It aids students in writing resumes and cover letters, discusses interviewing practices and examines student/employer relationships. International internship opportunities and processes for application will be discussed. This workshop is held during the week following the end of the Winter semester.

- **Pre-Research Project Workshop**

This online workshop reviews the Research Project requirements, aids students in preparing a project concept, proposal and establishing the research project timelines, and provides access to information and resources necessary for approval and completion of the Research Project. This workshop is held during the week following the end of the Winter semester.

21.3.3 Advanced Standing

Students who have successfully completed the Marine Institute Advanced Diploma in Integrated Coastal and Ocean Management will be given advanced standing credit for MSTM 6012, 6016, and [TECH 6022](#).

21.3.4 Transfer Credits

Up to three relevant elective courses (9 credit hours) may be transferred from other graduate programs within the School of Graduate Studies or from other post-secondary institutions recognized by Senate, subject to the approval of the Dean of Graduate Studies on the recommendation of the Academic Director.

21.3.5 Evaluation

1. Students in the Master of Marine Studies (Marine Spatial Planning and Management) program must obtain a grade of B or better in all program courses.
2. Students who receive a grade of less than B in any course will be permitted to remain in the program provided the course is repeated and passed with a grade of B or better. Alternatively, the student may, on the recommendation of the Academic Director, and with the approval of the Dean of Graduate Studies, substitute another graduate course. Only one course repetition or substitution will be permitted during the student's program after which the student shall be required to withdraw from the program.

21.3.6 Courses

21.3.6.1 Core Courses

MSTM 6011 Introduction to Integrated Coastal and Ocean Management / Marine Spatial Planning

MSTM 6012 Fundamentals of Geospatial Analysis

MSTM 6013 Resource/Natural Environment and Ocean Use Characterization

MSTM 6014 Geospatial Analysis for Marine Spatial Planning (prerequisites: MSTM 6011, 6012, and 6013)
~~MSTM~~ MARI 6027 Coastal and Ocean Environmental Policies (*credit restricted with the former MSTM 6027*)
TECH 6022 Communication and Conflict Resolution in a Technical Environment (*credit restricted with the former MSTM 6022*)
TECH 6034 Project Management in the Offshore, Health, Fisheries and Engineering Technology Environments (*credit restricted with the former MSTM 6034*)

21.3.6.2 Category A Electives: ~~Natural Environment~~

ENVE/ENVS 6001 Earth and Ocean Systems
MSTM 6001 Fisheries Ecology (*credit restricted with the former FRM 6001*)
MSTM 6015 Marine Protected Areas
MSTM 6016 Coastal Geomorphology / Oceanography
OCSC 7100 Biological Oceanography

21.3.6.3 Category B Electives: ~~Human Environment~~

MSTM 6008 Social and Philosophical Issues in Sustainable Fisheries
MSTM 6017 Social and Cultural Aspects of Coastal Communities
~~MSTM 6018 Coastal and Ocean Economies~~
MSTM 6003 Fisheries Economics (*CR: credit restricted with the former FRM 6003*)
MSTM 6005 Overview of World Fisheries (*credit restricted with the former FRM 6009*)
OTEC 6014 Introduction to Marine Renewable Energy

21.3.6.4 Category C Electives: ~~Decision Support / Geospatial Analysis~~

~~GEOG 6120 Geospatial Modelling and Analysis~~
~~GEOG 6821 Advanced Computer Modelling/Habitat Mapping~~

8. ANY OTHER BUSINESS
9. ADJOURNMENT The meeting adjourned at 4:25 p.m.

Aimée Surprenant, Chair

Echo Pittman, Secretary